

ABSTRACT OF THE DISCLOSURE

An antenna element for magnetic resonance applications has at least one sub-section that extends along a section axis and is adjacent to an auxiliary circuit. The antenna element has a coupling section and an auxiliary circuit section that is inductively coupled to the sub-section via the coupling section. The auxiliary circuit section extends parallel to the sub-section at a spacing from the section axis. The auxiliary circuit has controllable tuning elements therein. Depending on their control state, a radio-frequency excitation current flowing in the sub-section causes in the auxiliary circuit section a leading auxiliary current, a lagging auxiliary current, or no auxiliary current.

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